

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspio.gov

SUITE 2600 HOUSTON, TX 77010 DATE MAILED: 12/01/2004	APPLICATION NO. FILING DATE  10/073,445 02/11/2002  24238 7590 12/01/2004  JENKENS & GILCHRIST  1401 MCKINNEY  SUITE 2600 HOUSTON, TX 77010	FIRST NAMED INVENTOR Yugao Zhang	ATTORNEY DOCKET NO. CONFIRMATION NO.  55025.3USPT 4531  EXAMINER  IZAGUIRRE, ISMAEL  ART UNIT PAPER NUMBER  3765  DATE MAILED: 12/01/2004
---	---	----------------------------------	---

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	$\Lambda \Lambda $
		ZHANG ET AL.	1001
	10/073,445	Art Unit	V
Office Action Summary	Examiner	2765	
The MAILING DATE of this communication	Ismael Izaguirre	et with the correspondence	address
The MAILING DATE of this communication	appears on the cover snee	<del></del>	
eriod for Reply	EDIVIC SET TO FXPIRE	. 3 MONTH(S) FROM	
eriod for Reply  A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 C  - Extensions of time may be available under the provisions of 37 C  - Extensions of time may be available under the provisions of 37 C  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by  Any reply received by the Office later than three months after the  earned patent term adjustment. See 37 CFR 1.704(b).	on.  a reply within the statutory minimum  by the statutory minimum  control of the statutory minimum  contr	of thirty (30) days will be considered to MONTHS from the mailing date of the constant of the	timely. nis communication.
Status	08 November 2004.		
Status  1) Responsive to communication(s) filed or  2b)	☐ This action is non-final.		o the merits is
Alon ic FINAI	· · · · · · · · · · · · ·	al matters, prosecution as t	
2a) This action is 1 to 2.  3) Since this application is in condition for a closed in accordance with the practice to	under Ex parte Quayle, 19:	35 C.D. 11, 455 O.G. 215.	
closed in accordance with the practice of			
4) Claim(s) 57-80 is/are pending in the ap	plication.	ion.	
(a) Of the above claim(s)	withdrawn nom considerat		
6) Claim(s) 57-59,61,63 and 67-72 13/41	rejected.		
6)	eu io. on and/or election requirer	nent.	
7) Claim(s) 60,62 and 64-66 is/are object 8) Claim(s) are subject to restriction	JIT and/or orosassis i		
Application Papers	Examiner.	ented to by the Fyaminer.	
9) The specification is objected to by the 10) The drawing(s) filed on is/are:	a) accepted or b) dobj	ected to by the Examinor	.85(a).
10) The drawing(s) filed on (s, and on)	tion to the drawing(s) be held	in abeyance. See or Str.	ee 37 CFR 1.121(d).
Applicant may not request that any object Replacement drawing sheet(s) including  11) The oath or declaration is objected to	the correction is required if th	ne grawing(s) is objected to one of attached Office Action or	form PTO-152.
Replacement drawing sneeds missing	by the Examiner. Note the	e allacinou Omoo / lossessesses	
11) The oath of declaration to object			•
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim	and also amonity under 3	5 U.S.C. § 119(a)-(d) or (f)	).
12) Acknowledgment is made of a claim	for toreign priority under 3		
	documents have been re	ceived in Application No	
1. ☐ Certified copies of the priority 2. ☐ Certified copies of the priority 3. ☐ Copies of the certified copies	documents have been to	have been received in this	National Stage
Conies of the certified copies	(DOT Bule 17	7 2(a)).	
3. Copies of the certified copies application from the Internation	onal bureau (For raid ).	copies not received.	
application from the Internati  * See the attached detailed Office acti	IOU IOI a list of the octains		
			•
		•	
Attachment(S)	4	Interview Summary (PTO-41	3)
Attachment(s)  All Notice of References Cited (PTO-892)	<i>'</i>	Interview Summary (PTO-41 Paper No(s)/Mail Date.	3)  oplication (PTO-152)
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-1449	, (PTO-948)	Interview Summary (PTO-41 Paper No(s)/Mail Date ) Notice of Informal Patent Ap ) Other:	3) 

Art Unit: 3765

### **DETAILED ACTION**

#### **CLAIMS**

#### Summary

Claims 57,68,73 and 76-80 are the independent claims under consideration in this Office Action.

Claims 58-67 are the dependent claims under consideration in this Office Action.

## Claim Rejections - 35 U.S.C. § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 57,61,63,67,68,71 and 72 are rejected under 35 U.S.C. § 102(b) as being anticipated by Bollag (4,214,319).

Bollag teaches a method of producing a wrinkle free seam in a garment. Bollag teaches placing a bonding element 81 (figure 8) or layer 17 (from column 6, line 22), which can be solid continuous film (column 13, lines 35-42), if a pattern is provided, or preferably can be dots or points, placed on or between garment components 11 and 12 (figure 1A). Bollag teaches sewing a set of stitches traversing through the bonding element and alt least one of the garment commonest (figures 1B or 4 and 5, or from column 10, lines 6-18). Sufficient heat and pressure is provided to effect bonding of he adhesive to at least one garment component, where Bollag teaches that the bonding

Art Unit: 3765

element adhesive is activated with a temperature in the range of about 100 degrees Celsius and 170 degrees Celsius (from column 6, lines 14 and 15). Bollag teaches a garment where multiplicities of seam locations are preferred for use of the adhesive, figures 4-7, and where folded portions are included in the seam structure. Where the folds occur, that is where the components (which include lining components, as taught occurring in small amounts in the dorsal area. See column 10, line 37) are folded over and onto themselves, the adhesive at the seam are forms a U-shaped configuration (figure 1C, for example).

## Claim Rejections - 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 58,59,69 and 70 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Bollag in view of Ishii et al. (4,659,615).

Bollag discloses the invention substantially as claimed. See above for specific explanations of the structural details of this document. Briefly, Bollag teaches a method for forming seams in garments including a melt adhesive sewn into the seam. Bollag teaches the adhesive being of the type, which is activated using heat and pressure for melting the adhesive into the seam. The melting point of the adhesive is taught at

Application/Control Number: 10/073,445

Art Unit: 3765

between 160 and 200 degrees Celsius. However, Bollag does not specifically suggest the adhesive as including particular peel strength.

Ishii et al. teach a polymer film for use in the textile industry (column 1, line 28) and where this particular adhesive is heat activated and has a melting point of between 160 and 200 degrees Celsius, as well (see column 2, line 52). Further, Ishii et al. teach the importance of the adhesion and peel strength of the melt adhesive in use (column 4, lines 46-60). Ishii et al. teach in their disclosure how particular peel strengths of a melt adhesive affect the integrity of the seam in a garment, and teaches specific peel strengths greater than .5 and 1.0 pounds per inch, and illustrates these in tables 1 and 3.

Accordingly, it would have been obvious to a person having ordinary skill in the art at the time of Applicant's invention to construct the melt adhesive of Bollag as including particular peel strengths, as noted in Ishii et al., for providing a positive bonding between the adhesive layer and the textile or garment layer. Providing such high peel strengths would assure the integrity of the seam in question and not allow the garment to "fall apart" because of a failed seam with low peel strength.

## ALLOWABLE SUBJECT MATTER

Claims 73-80 are allowable over the prior art of record.

Claims 60,62 and 64-66 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/073,445

Art Unit: 3765

### PERTINENT CITATIONS

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Fowler illustrates a garment with sewn portions and laminate strips for the seams. Off et al. Illustrate a patch including fusible strips. Schure et al. Illustrate adhesive compounds including teachings of peel strength. Reaney illustrates adhesive strips for use over seams in garments with a melting point of 200 to 400 degrees Celsius.

#### INQUIRIES

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ismael Izaguirre whose telephone number is (703) 308-0892. The examiner can normally be reached on M-F (8:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Calvert can be reached on (703) 305-1025. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Art Unit: 3765

Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ismael Izaguirre Primary Examiner Art Unit 3765

II 11/28/04